

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01344

**A. CLASSIFICATION OF SUBJECT MATTER**Int. Cl.<sup>7</sup>: F01C 1/20, 5/02, 19/04, F02B 53/00, 55/02, 55/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
AU : IPC F01C 1/20, 5/20, 19/04, F02B 53/00, 55/02, 55/16 (1975 - 2003)Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
DWPI & keywords: rotary engine, lobe, gear, tooth, teeth, rotor, exhaust, purge, outlet, scavenge, discharge.**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6129067 A (RILEY) 10 October 2000 Column 4 line 5 to column 5 line 11	1 - 6
X	CA 2256888 A (HUCKERBY) 24 June 1999 Whole document	1 - 6
X	FR 2662468 A (GARCEAU) 29 November 1991 Whole document	1 - 6

 Further documents are listed in the continuation of Box C See patent family annex

* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 7 November 2003	Date of mailing of the international search report 23 DEC 2003
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer <b>B. NGUYEN</b> Telephone No : (02) 6283 2306

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**Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos :  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos :  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos :  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

**Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

As reasoned on the extra sheet

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1 - 35

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

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**Supplemental Box**

(To be used when the space in any of Boxes I to VIII is not sufficient)

**Continuation of Box No: II**

The different inventions are:

1. Claims 1 to 35 directed to a rotary engine including at least one exhaust port leading out of the housing for discharge of exhaust gases and respective purge ports leading out of the housing downstream of the exhaust port to facilitate discharge of residual exhaust gases, also the purge ports being associated with air inlet ports to admit air into the cavity.
2. Claims 36 to 42 directed to a rotary engine comprising at least one rotor tip contacting a portion of the housing during rotation and a landing zone provided in the housing.
3. Claims 43 to 47 directed to a rotary engine comprising a first seal provided in a first channel in the rotor, a second seal provided in a second channel of the rotor, and a blocking element.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/AU03/01344**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member
US	6129067	NONE
CA	2256888	NONE
FR	2662468	NONE

END OF ANNEX